

Application No.: 10/567,108

Docket No.: 21879-00063-US1

AMENDMENTS TO THE CLAIMS

This Listing of Claims will replace all prior versions and listings of claims in this application.

Listing of Claims:

1. (Original) Improvement of the thiourea solutions to leach silver and gold characterized by containing a quantity of partially electro-oxidized thiourea.
2. (Previously Presented) Improvement of the thiourea solutions to leach silver and gold according to claim 1, characterized additionally by a solution which contains formamidine disulfide (FADS) produced in-situ by a controlled electro-oxidation in a proportion of 10 to 30% of the total amount of thiourea contained in the solution.
3. (Currently Amended) Improvement of the thiourea solutions to leach silver and gold, according to claim 1 or claim 2 wherein the composition of the thiourea leaching solution is formulated in the same process in which the leaching solution is placed in contact with the mineral from which the metallie silver and gold values are to be leached.
4. (Previously Presented) Gold and silver leaching and recovery process with partially oxidized thiourea characterized as consisting of the thiourea oxidation by the application of an electrical current in a membrane cell, where the anodic and cathodic compartments are separated, before sending the product to the leaching stage and that after leaching is concluded, the pregnant solution, separated from the mineral residue (gangue), enters the cathodic compartment of the same electrolytic cell in which the thiourea was partially oxidized in the anodic part, where the metals are reduced and electrodeposited.